

## **1.0 Declaration**

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### **1.1 Site Name and Location**

The Supplemental Basewide Operable Unit Record of Decision (Supplemental Basewide OU ROD) is for the former Mather Air Force Base (Mather AFB; now known as Mather, CA), located in Sacramento County, CA (Figure 1).

U.S. Environmental Protection Agency (U.S. EPA) site identification number for Mather Air Force Base as listed in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database: CA8570024143

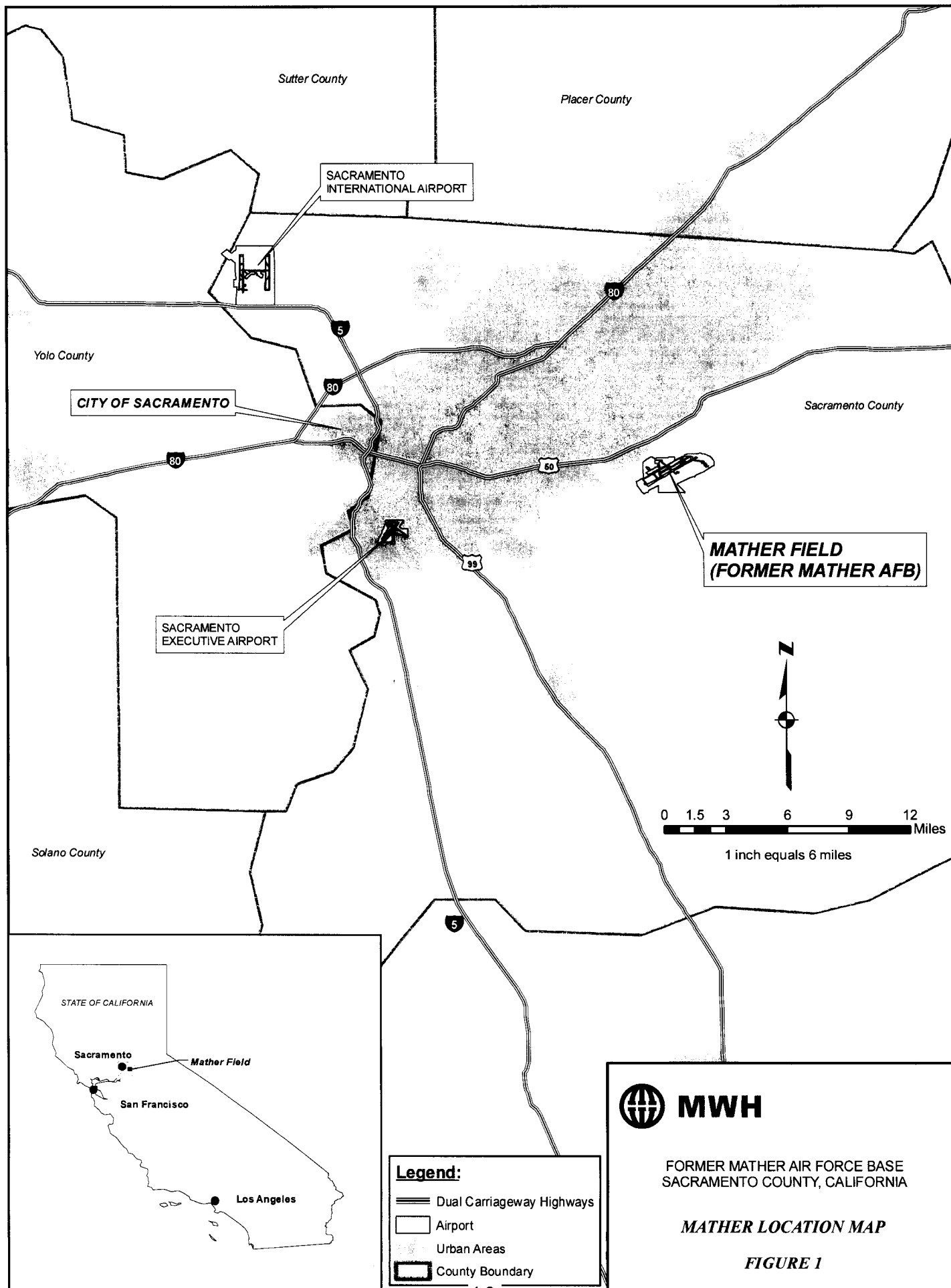
### **1.2 Statement of Basis and Purpose**

The Supplemental Basewide ROD presents the selected remedies for four sites and one area of concern (AOC) at the former Mather air Force Base, California. The selected remedies in this Supplemental Basewide OU ROD were chosen in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The decisions documented herein are based on information contained in the Administrative Record for the subject sites. The Administrative Record Index (Appendix A) identifies documents that were considered or relied upon to make these decisions.

The Air Force and the U.S. EPA Region IX have selected the Supplemental Basewide OU ROD remedies with the concurrence of the state of California. This ROD has been prepared in accordance with *A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents* (U.S. EPA, 1999).

This Record of Decision, in combination with the following previously completed RODs, represents completion of the remedy selection process for identified sites and groundwater contamination at Mather AFB:

- Aircraft Control and Warning Site Record of Decision, Air Force Base Conversion Agency (AFBCA, 1993).
- *Landfill Operable Unit Sites Record of Decision*, AFBCA, 1995
- *Soil Operable Unit Sites and Groundwater Operable Unit Plumes Record of Decision*, (AFBCA, 1996)
- *Basewide Operable Unit Record of Decision*, AFBCA, 1998



### **1.3 Assessment of the Supplemental Basewide Operable Unit Sites**

The remedies selected in this ROD are necessary to protect human health and the environment from actual or threatened releases of hazardous substances and pollutants or contaminants as defined in NCP 300.5. Where no such releases were identified or where identified releases have been sufficiently addressed by prior removal actions, the Air Force has determined that no further action is necessary to protect human health and the environment. The sites and the Area of Concern addressed in this ROD, including their primary contaminants, if any, are:

- Site 80, Golf Course Maintenance Area Ditch – Ecological risks were identified in the sediments and surface water due to the presence of the pesticide dieldrin and were addressed by removal action. The site no longer presents an adverse risk to human health or the environment.
- Site 85, South Ditch – Ecological risks were identified in the sediments and surface water due to the presence of the pesticides alpha-chlordane, gamma-chlordane, 4,4'-dichlorodiphenyldichloroethane [4,4'-DDD], 4,4'-dichlorodiphenyldichloroethylene [4,4'-DDE], 4,4'-dichlorodiphenyltrichloroethane [4,4'-DDT], and dieldrin, and were addressed by removal action. The site no longer presents an adverse risk to human health or the environment.
- Site 88, Morrison Creek – Ecological risks were identified in the sediments and surface water due to the presence of the pesticides alpha-chlordane, gamma-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin, and were addressed by removal action. The site no longer presents an adverse risk to human health or the environment.
- Sites 89, Old Trap Range – Lead concentrations in soil remain above levels allowed for unrestricted use. Surface water sampling and groundwater sampling have not identified any water quality degradation from lead contamination at this site; no further monitoring is required for this site.
- Ordnance Burial Area of Concern (AOC) – This AOC was formerly suspected of being an ordnance burial area; no evidence of contamination or ordnance burial was found.

### **1.4 Description of the Selected Remedies**

The Supplemental Basewide OU ROD selects remedies for three sites (Sites 80, 85 and 88) that were not sufficiently characterized to be included in the previous Basewide OU ROD, one newly identified site (Site 89), and an AOC (Suspected Ordnance Burial AOC). The Supplemental Basewide OU consists of the identified sites at Mather that have not been included in prior records of decision. The Supplemental Basewide OU ROD selected remedies are:

- Site 80, Golf Course Maintenance Area Ditch – No Further Action
- Site 85, South Ditch – No Further Action
- Site 88, Morrison Creek – No Further Action

- Site 89, Old Trap Range – Institutional Controls
- Ordnance Burial AOC– No Further Action

Table 1 lists the selected remedies as well as the preferred alternative (if applicable), completed removal actions (if any) and current remedial status. Of these sites, only Site 89 has significant contamination remaining on site. The surface of Site 89 was cleaned such that residual lead contamination is compatible with recreational or industrial use, but not unrestricted (i.e. residential) use. Therefore, institutional controls constitute the selected remedy to prevent unacceptable exposure to surface and subsurface lead contamination.

### **1.5 Statutory Determinations**

The selected remedies of the Supplemental Basewide ROD are protective of human health and the environment; comply with Federal and State requirements that are legally applicable or relevant and appropriate; are cost-effective; and use permanent solutions to the maximum extent practicable. Based on completed removal actions, active remedies are not required and therefore, the statutory preference for treatment, including alternative treatment technologies or resource recovery technologies, as a principal element of the remedy is not applicable.

A five-year review will not be required for Sites 80, 85, 88 and the Suspected Ordnance Burial AOC because they do not have hazardous substances, pollutants, or contaminants remaining on site at concentrations above levels that allow for unlimited use and unrestricted exposure. A five-year review is required at Site 89 because hazardous substances, pollutants or contaminants will remain on-site above levels that allow for unlimited use and unrestricted exposure. The next five-year review at Mather is scheduled for completion by September 24, 2009.

### **1.6 Data Certification Checklist**

The following information is included in the decision summary section of this ROD (Section 2.0). Additional information can be found in the Administrative Record documents for this site.

- Chemicals of concern and their respective concentrations
- Baseline risk represented by the contaminants of concern (COCs)
- Cleanup levels established for COCs and the basis for these levels
- How source materials constituting principal threats are addressed
- Current and reasonably anticipated future land-use assumptions, and current and potential future beneficial uses of groundwater used in the baseline risk assessment and this ROD
- Potential land and groundwater use that will be available at the site as a result of the selected remedies

- Estimated costs for the remedial alternatives
- Key factor(s) that led to selecting the remedy

**Table 1**  
**Summary of Supplemental Basewide OU ROD Selected Remedies**

<b>Site 80, Golf Course Maintenance Area Ditch</b>	
<b>Initial Preferred Alternative<sup>1</sup></b>	Excavate sediments with off-base disposal
<b>Removal Action</b>	Excavation of sediments containing pesticides with on-base disposal (AFBCA, 1999, and AFBCA, 2001a)
<b>Selected Remedy</b>	No further action
<b>Remedial Status</b>	Not applicable
<b>Site 85, South Ditch</b>	
<b>Initial Preferred Alternative<sup>1</sup></b>	Excavate sediments with off-base disposal
<b>Removal Action</b>	Excavation of sediments with on-base disposal (AFBCA, 1997a, and AFBCA, 2001a)
<b>Selected Remedy</b>	No further action
<b>Remedial Status</b>	Not applicable
<b>Site 88, Morrison Creek</b>	
<b>Initial Preferred Alternative<sup>1</sup></b>	Excavate sediments with off-base disposal
<b>Removal Action</b>	Excavation of sediments containing pesticides with on-base disposal (AFBCA, 1999, and AFBCA, 2001a)
<b>Selected Remedy</b>	No further action
<b>Remedial Status</b>	Not applicable
<b>Site 89, Old Trap Range</b>	
<b>Initial Preferred Alternative<sup>1</sup></b>	Excavation with off-base disposal, institutional controls, surface water monitoring, and groundwater well installation and monitoring
<b>Removal Action</b>	Excavation of soil containing lead (AFBCA, 2001b)
<b>Selected Remedy</b>	Institutional controls
<b>Remedial Status</b>	Land use controlled by lease until property is deeded.
<b>Ordnance Burial AOC</b>	
<b>Initial Preferred Alternative<sup>1</sup></b>	No further action (AFBCA, 2000)
<b>Removal Action</b>	None; no contamination identified
<b>Selected Remedy</b>	No further action
<b>Remedial Status</b>	Not applicable

<sup>1</sup> Initial preferred alternatives are those presented in the Supplemental Basewide OU Proposed Plan (AFBCA, 2000)

## 1.7 Authorizing Signatures

This Supplemental Basewide ROD may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but all such counterparts shall together constitute one and the same document.

The USEPA and the Air Force jointly select the remedies described in this Final Record of Decision for the Supplemental Basewide Operable Unit Sites.

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KATHRYN M. HALVORSON  
Director  
Air Force Real Property Agency  
U.S. Air Force

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Date

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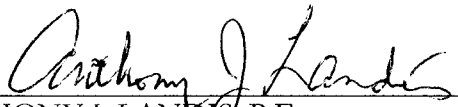
KATHLEEN JOHNSON  
Chief, Federal Facilities and Site Cleanup Branch  
Region IX, U.S. Environmental Protection Agency

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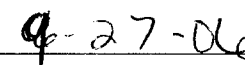
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The State of California Department of Toxic Substances Control (DTSC), and California Central Valley Regional Water Quality Control Board (CVRWQCB) had an opportunity to review and comment on the Supplemental Basewide ROD and their concerns were addressed (DTSC and CVRWQCB are hereafter jointly referred to as the State of California).

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ANTHONY J. LANDIS, P.E.  
Chief, Northern California Operations  
Office of Military Facilities  
Department of Toxic Substances Control  
California Environmental Protection Agency

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